## STIC Biotechnology Systems Branch

# RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	161541,750
Source:	PCT
Date Processed by STIC:	07-19-2005

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 4.2.2 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<a href="http://www.uspto.gov/ebc/efs/downloads/documents.htm">http://www.uspto.gov/ebc/efs/downloads/documents.htm</a>, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

### Raw Sequence Listing Error Summary

SERIAL NUMBER: 10/54/,750  ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOF  Wrapped Nucleics Wrapped Aminos Wrapped Aminos Wrapped in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."  Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.  Misaligned Amino Numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers: use space characters, instead.  Mon-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.  Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing	
Wrapped Aminos was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."  2	WARĘ
Misaligned Amino Numbering  The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers: use space characters, instead.  The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Pleas ensure your subsequent submission is saved in ASCII text.  Variable Length  Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each	ile
Numbering use space characters, instead.  4 Non-ASCII  The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Pleas ensure your subsequent submission is saved in ASCII text.  5 Variable Length  Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each	
variable Length  Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each	
each n or Xaa can only represent a single residue. Please present the maximum number of eac	<u>;</u>
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino ac sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	e
7Skipped Sequences Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  This sequence is intentionally skipped	
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequen	ces.
8Skipped Sequences   Sequence(s) missing. If intentional, please insert the following lines for each skipped sec	uence.
Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing.  (NEW RULES) Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa repre	ents.
0Invalid <213> Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence. scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknis Artificial Sequence	
Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and response use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" "Unknown." Please explain source of genetic material in <220> to <223> section.  (See Federal Register," 06/01/1998, Vol. 63. No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Federal Register)	or
Patentin 2.0 "bug" Please do not use "Copy to Disk" function of Patentin version 2.0. This causes a corrupted file. resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk	
3 Misuse of n/Xaa "n" can only represent a single <u>nucleotide</u> ; "Xaa" can only represent a single <u>amino acid</u>	



PCT

RAW SEQUENCE LISTING DATE: 07/19/2005 PATENT APPLICATION: US/10/541,750 TIME: 15:19:21

Input Set : A:\Final Sequence list-13311-00009-US.txt

Output Set: N:\CRF4\07192005\J541750.raw

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3 <110> APPLICANT: Matuschek, Markus
                                                              Does Not Comply
             Klein, Daniela
             Heinekamp, Thorsten
     5
                                                              Corrected Diskette Needed
             Schmidt, Andre
      6
     7
             Brakhage, Axel
            Achatz, Brigitte
    10 <120> TITLE OF INVENTION: Method for producing caretenoids or their precursors using
             genetically modified organisms of the Blakeslea genus,
    11
             carotenoids or their precursors produced by said method and use
    12
    13
             thereof
                                                                       (Pg-2)
     15 <130> FILE REFERENCE: 13311-00009-US
C--> 17 <140> CURRENT APPLICATION NUMBER: US/10/541,750
C--> 17 <141> CURRENT FILING DATE: 2005-07-08
    17 <150> PRIOR APPLICATION NUMBER: PCT/EP2004/000099
    18 <151> PRIOR FILING DATE: 2004-01-09
    20 <150> PRIOR APPLICATION NUMBER: DE 103 00 649.4
    21 <151> PRIOR FILING DATE: 2003-01-09
    23 <150> PRIOR APPLICATION NUMBER: DE 103 41 271.9
    24 <151> PRIOR FILING DATE: 2003-09-08
    26 <160> NUMBER OF SEQ ID NOS: 80
    29 <170> SOFTWARE: PatentIn version 3.2
    31 <210> SEQ ID NO: 1
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    34 <213> ORGANISM: Artificial Sequence
    36 <220> FEATURE:
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    39 <400> SEQUENCE: 1
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    44 ttcatgggcg ttggcatgat ggccgtcatg catctgtact tcaagtacac caacgctctt
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    46 ctgatccagt cgatcatccg ctgaaggcgc tttcgaatct ggttaagatc cacgtcttcg
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    48 ggaagccagc gactggtgac ctccagcgtc cctttaaggc tgccaacagc tttctcagcc
                                                                             300
    50 agggccagec caagacegae aaggeeteee tecagaaege egagaagaae tggaggggtg
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    52 gtgtcaagga ggagtaagct ccttattgaa gtcggaggac ggagcggtgt caagaggata
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    54 ttcttcgact ctgtattata gataagatga tgaggaattg gaggtagcat agcttcattt
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    56 ggatttgctt tccaggctga gactctagct tggagcatag agggtccttt ggctttcaat
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    58 atteteaagt atetegagtt tgaacttatt eeetgtgaac ettttattea eeaatgagea
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    60 ttggaatgaa catgaatctg aggactgcaa tcgccatgag gttttcgaaa tacatccgga
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    62 tgtcgaaggc ttggggcacc tgcgttggtt gaatttagaa cgtggcacta ttgatcatcc
                                                                             720
    64 gatagetetg caaagggegt tgeacaatge aagteaaaeg ttgetageag tteeaggtgg
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    66 aatgttatga tgagcattgt attaaatcag gagatatagc atgatctcta gttagctcac
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68 cacaaaagtc agacggcgta accaaaagtc acacaacac agctgtaagg atttcggcac

900

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    74 aggaagtgga ctcaaatcga cttcagcaac atctcctgga taaactttaa gcctaaacta
    76 tacagaataa gataggtgga gagcttatac cgagctccca aatctgtcca gatcatggtt
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    78 qaccqqtqcc tqqatcttcc tataqaatca tccttattcg ttgacctagc tgattctgga
                                                                             1200
    80 qtqacccaqa qqqtcatgac ttqaqcctaa aatccgccgc ctccaccatt tgtagaaaaa
                                                                             1260
    82 tgtgacgaac tcgtgagctc tgtacagtga ccggtgactc tttctggcat gcggagagac
                                                                             1320
    84 ggacggacgc agagagaagg gctgagtaat aagccactgg ccagacagct ctggcggctc
                                                                             1380
    86 tgaggtgcag tggatgatta ttaatccggg accggccgcc cctccgcccc gaagtggaaa
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                                                                             1500
    88 ggctggtgtg cccctcgttg accaagaatc tattgcatca tcggagaata tggagcttca
    90 tcqaatcacc ggcagtaagc gaaggagaat gtgaagccag gggtgtatag ccgtcggcga
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    92 aatagcatgc cattaaccta ggtacagaag tccaattgct tccgatctgg taaaagattc
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    94 acqagatagt accttctccg aagtaggtag agcgagtacc cggcgcgtaa gctccctaat
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    96 tggcccatcc ggcatctgta gggcgtccaa atatcgtgcc tctcctgctt tgcccggtgt
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    98 atgaaaccgg aaaggccgct caggagctgg ccagcggcgc agaccgggaa cacaagctgg
                                                                             1800
                                                                              1860
    100 cagtegacec ateeggtget etgeactega cetgetgagg teceteagte cetggtagge
                                                                              1920
    102 agetttgece egtetgteeg eeeggtgtgt eggeggggtt gacaaggteg ttgegteagt
    104 ccaacatttg ttgccatatt ttcctgctct ccccaccagc tgctcttttc ttttctcttt
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    106 cttttcccat cttcagtata ttcatcttcc catccaagaa cctttatttc ccctaagtaa
                                                                              2040
                                                                              2100
    108 qtactttqct acatccatac tccatccttc ccatccctta ttcctttgaa cctttcagtt
    110 cqaqctttcc cacttcatcq caqcttgact aacagctacc ccgcttgagc agacatcacc
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    122 <220> FEATURE:
    123 <221> NAME/KEY: misc_feature
    124 <222> LOCATION: (267) .. (267)
    125 <223> OTHER INFORMATION: n is a, c, g, or t
    127 <220> FEATURE:
    128 <221> NAME/KEY: misc feature
    129 <222> LOCATION: (475)..(475)
    130 <223> OTHER INFORMATION: n is a, c, g, or t
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                                                                               120
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    142 ttcatttgtc caagcagcaa agagtgcctt ctagtgattt aatagctcca tgtcaacaag
                                                                               240
    144 aataaaacgc gttttcgggt ttacctcttc cagatacagc tcatctgcaa tgcattaatg
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W--> 146 cattgactge aacctagtaa cgeettneag geteeggega agagaagaat agettageag
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    148 agctattttc attttcgqga gacgagatca agcagatcaa cggtcgtcaa gagacctacg
    150 agactgagga atccgctctt ggctccacgc gactatatat ttgtctctaa ttgtactttg
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    152 acatgctcct cttctttact ctgatagctt gactatgaaa attccgtcac cagencetgg
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Input Set : A:\Final Sequence list-13311-00009-US.txt

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158 atggttgcct agtgaatgct ccgtaacacc caatacgccg gccgaaactt ttttacaact
160 ctcctatgag tcgtttaccc agaatgcaca ggtacacttg tttagaggta atccttcttt
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216 tggaatgtta tgatgagcat tgtattaaat caggagatat agcatgatct ctagttagct
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220 cacggctacg gaagacggag aagccacctt cagtggactc gagtaccatt taattctatt
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222 tgtgtttgat cgagacctaa tacagcccct acaacgacca tcaaagtcgt atagctacca
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224 gtgaggaagt ggactcaaat cgacttcagc aacatctcct ggataaactt taagcctaaa
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236 ctctgaggtg cagtggatga ttattaatcc gggaccggcc gcccctccgc cccgaagtgg
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238 aaaggetggt gtgcccctcg ttgaccaaga atctattgca tcatcggaga atatggaget
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240 teategaate acceptagta agegaaggag aatgtgaage caggggtgta tageegtegg

1560

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Input Set : A:\Final Sequence list-13311-00009-US.txt

Output Set: N:\CRF4\07192005\J541750.raw

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     246 aattggccca teeggcatet gtagggegte caaatategt geeteteetg etttgeeegg
     248 tgtatgaaac cggaaaggcc gctcaggagc tggccagcgg cgcagaccgg gaacacaagc
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     252 gqcaqctttg ccccgtctgt ccgcccggtg tgtcggcggg gttgacaagg tcgttgcgtc
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     254 agtecaacat ttgttgecat atttteetge tetececace agetgetett ttetttete
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    256 tttcttttcc catcttcagt atattcatct tcccatccaa gaacctttat ttcccctaag
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                                                                              4020
                                                                              4080
    324 ttcctqtqtq aaattgttat ccgctcacaa ttccacacaa catacgagcc ggaagcataa
    326 agtgtaaage etggggtgee taatgagtga getaacteae attaattgeg ttgegeteae
                                                                              4140
    328 tgcccgcttt ccagtcggga aacctgtcgt gccagctgca ttaatgaatc ggccaacgcg
                                                                              4200
                                                                              4260
    330 cggggagagg cggtttgcgt attgggccaa agacaaaagg gcgacattca accgattgag
                                                                              4320
    332 ggagggaagg taaatattga cggaaattat tcattaaagg tgaattatca ccgtcaccga
                                                                              4380
    334 cttgagccat ttgggaatta gagccagcaa aatcaccagt agcaccatta ccattagcaa
                                                                              4440
    336 ggccggaaac gtcaccaatg aaaccatcga tagcagcacc gtaatcagta gcgacagaat
    338 caaqtttgcc tttagcgtca gactgtagcg cgttttcatc ggcattttcg gtcatagccc
                                                                              4500
```

RAW SEQUENCE LISTING DATE: 07/19/2005
PATENT APPLICATION: US/10/541,750 TIME: 15:19:21

Input Set : A:\Final Sequence list-13311-00009-US.txt

Output Set: N:\CRF4\07192005\J541750.raw

340	ccttattagc	gtttgccatc	ttttcataat	caaaatcacc	ggaaccagag	ccaccaccgg	4560
342	aaccgcctcc	ctcagagccg	ccaccctcag	aaccgccacc	ctcagagcca	ccaccctcag	4620
344	agccgccacc	agaaccacca	ccagagccgc	cgccagcatt	gacaggaggc	ccgatctagt	4680
346	aacatagatg	acaccgcgcg	cgataattta	tcctagtttg	cgcgctatat	tttgttttct	4740
348	atcgcgtatt	aaatgtataa	ttgcgggact	ctaatcataa	aaacccatct	cataaataac	4800
350	gtcatgcatt	acatgttaat	tattacatgc	ttaacgtaat	tcaacagaaa	ttatatgata	4860
352	atcatcgcaa	gaccggcaac	aggattcaat	cttaagaaac	tttattgcca	aatgtttgaa	4920
354	cgatcgggga	tcatccgggt	ctgtggcggg	aactccacga	aaatatccga	acgcagcaag	4980
356	atatcgcggt	gcatctcggt	cttgcctggg	cagtcgccgc	cgacgccgtt	gatgtggacg	5040
358	ccgggcccga	tcatattgtc	gctcaggatc	gtggcgttgt	gcttgtcggc	cgttgctgtc	5100
360	gtaatgatat	cggcaccttc	gaccgcctgt	tccgcagaga	tcccgtgggc	gaagaactcc	5160
362	agcatgagat	ccccgcgctg	gaggatcatc	cagccggcgt	cccggaaaac	gattccgaag	5220
364	cccaaccttt	catagaaggc	ggcggtggaa	tcgaaatctc	gtgatggcag	gttgggcgtc	5280
366	gcttggtcgg	tcatttcgaa	ccccagagtc	ccgctcagaa	gaactcgtca	agaaggcgat	5340
368	agaaggcgat	gcgctgcgaa	tcgggagcgg	cgataccgta	aagcacgagg	aagcggtcag	5400
370	cccattcgcc	gccaagctct	tcagcaatat	cacgggtagc	caacgctatg	tcctgatagc	5460
372	ggtccgccac	acccagccgg	ccacagtcga	tgaatccaga	aaagcggcca	ttttccacca	5520
374	tgatattcgg	caagcaggca	tcgccatggg	tcacgacgag	atcatcgccg	tcgggcatgc	5580
376	gcgccttgag	cctggcgaac	agttcggctg	gcgcgagccc	ctgatgctct	tcgtccagat	5640
378	catcctgatc	gacaagaccg	gcttccatcc	gagtacgtgc	tcgctcgatg	cgatgtttcg	5700
380	cttggtggtc	gaatgggcag	gtagccggat	caagcgtatg	cagccgccgc	attgcatcag	5760
382	ccatgatgga	tactttctcg	gcaggagcaa	ggtgagatga	caggagatcc	tgccccggca	5820
384	cttcgcccaa	tagcagccag	tcccttcccg	cttcagtgac	aacgtcgagc	acagctgcgc	5880
386	aaggaacgcc	cgtcgtggcc	agccacgata	gccgcgctgc	ctcgtcctgc	agttcattca	5940
388	gggcaccgga	caggtcggtc	ttgacaaaaa	gaaccgggcg	cccctgcgct	gacagccgga	6000
390	acacggcggc	atcagagcag	ccgattgtct	gttgtgccca	gtcatagccg	aatagcctct	6060
392	ccacccaagc	ggccggagaa	cctgcgtgca	atccatcttg	ttcaatcatg	cgaaacgatc	6120
394	cagatccggt	gcagattatt	tggattgaga	gtgaatatga	gactctaatt	ggataccgag	6180
396	gggaatttat	ggaacgtcag	tggagcattt	ttgacaagaa	atatttgcta	gctgatagtg	6240
398	accttaggcg	acttttgaac	gcgcaataat	ggtttctgac	gtatgtgctt	agctcattaa	6300
400	actccagaaa	cccgcggctg	agtggctcct	tcaacgttgc	ggttctgtca	gttccaaacg	6360
402	taaaacggct	tgtcccgcgt	catcggcggg	ggtcataacg	tgactccctt	aattctccgc	6420
404	tcatgatcag	attgtcgttt	cccgccttca	gtttaaacta	tcagtgtttg	acaggatata	6480
406	ttggcgggta	aacctaagag	aaaagagcgt	ttattagaat	aatcggatat	ttaaaagggc	6540
408	gtgaaaaggt	ttatccgttc	gtccatttgt	atgtgcatgc	caaccacagg	gttccccaga	6600
410	tctggcgccg	gccagcgaga	cgagcaagat	tggccgccgc	ccgaaacgat	ccgacagcgc	6660
412	gcccagcaca	ggtgcgcagg	caaattgcac	caacgcatac	agcgccagca	gaatgccata	6720
414	gtgggcggtg	acgtcgttcg	agtgaaccag	atcgcgcagg	aggcccggca	gcaccggcat	6780
416	aatcaggccg	atgccgacag	cgtcgagcgc	gacagtgctc	agaattacga	tcaggggtat	6840
418	gttgggtttc	acgtctggcc	tccggaccag	cctccgctgg	tccgattgaa	cgcgcggatt	6900
420	ctttatcact	gataagttgg	tggacatatt	atgtttatca	gtgataaagt	gtcaagcatg	6960
422	acaaagttgc	agccgaatac	agtgatccgt	gccgccctgg	acctgttgaa	cgaggtcggc	7020
424	gtagacggtc	tgacgacacg	caaactggcg	gaacggttgg	gggttcagca	gccggcgctt	7080
426	tactggcact	tcaggaacaa	gcgggcgctg	ctcgacgcac	tggccgaagc	catgctggcg	7140
428	gagaatcata	cgcattcggt	gccgagagcc	gacgacgact	ggcgctcatt	tctgatcggg	7200
					atggcgcgcg		7260
					cgcagcttcg		7320
					tgacaatcag		7380
					ccggcgagcg		7440

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/19/2005 PATENT APPLICATION: US/10/541,750 TIME: 15:19:22

Input Set : A:\Final Sequence list-13311-00009-US.txt

Output Set: N:\CRF4\07192005\J541750.raw

htm

#### Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; N Pos. 267,475,566 Seq#:3; N Pos. 3471 679,3770 Seq#:4; N Pos. 227,318,526,8946,10028 Seq#:36; N Pos. 10264,10472,10563 Seq#:37; N Pos. 10264,10472,10563 Seq#:38; N Pos. 10264,10472,10563 Seq#:39; N Pos. 10264,10472,10563 Seg#:40; N Pos. 3471,3679,3770 Seq#:41; N Pos. 3471,3679,3770 Seq#:42; N Pos. 10264,10472,10563 Seq#:43; N Pos. 10264,10472,10563 Seq#:44; N Pos. 10264,10472,10563 Seq#:45; N Pos. 18970,19178,19269 Seq#:46; N Pos. 3471,3679,3770 Seg#:47; N Pos. 10264,10472,10563 Seq#:48; N Pos. 10264,10472,10563 Seq#:49; N Pos. 3471,3679,3770 Seq#:50; N Pos. 10264,10472,10563 Seq#:51; N Pos. 10264,10472,10563 Seq#:52; N Pos. 3,9 Seq#:53; N Pos. 3,6 Seq#:62; N Pos. 3471,3679,3770 Seq#:75; N Pos. 2694,4263

# **VERIFICATION SUMMARY**PATENT APPLICATION: **US/10/541,750**DATE: 07/19/2005 TIME: 15:19:22

Input Set: A:\Final Sequence list-13311-00009-US.txt
Output Set: N:\CRF4\07192005\J541750.raw

L:17 M:270 C: Current Application Number differs, Replaced Current Application No

L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:240 M:341 Repeated in SeqNo=2 L:304 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:3420 M:341 Repeated in SeqNo=3 L:758 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:180 M:341 Repeated in SeqNo=4 L:3768 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:10260 M:341 Repeated in SeqNo=36 L:4339 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:10260 M:341 Repeated in SeqNo=37 L:4965 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:10260 M:341 Repeated in SeqNo=38 L:5567 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:10260 M:341 Repeated in SeqNo=39 L:5941 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:3420 M:341 Repeated in SeqNo=40 L:6583 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:3420 M:341 Repeated in SegNo=41 L:7453 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:10260 M:341 Repeated in SeqNo=42 L:8067 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:10260 M:341 Repeated in SegNo=43 L:8659 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:10260 M:341 Repeated in SeqNo=44 L:9541 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:18960 M:341 Repeated in SeqNo=45 L:9699 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:3420 M:341 Repeated in SeqNo=46 L:10663 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:10260 M:341 Repeated in SeqNo=47 L:11281 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:10260 M:341 Repeated in SeqNo=48 L:11651 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:3420 M:341 Repeated in SeqNo=49 L:12521 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:10260 M:341 Repeated in SeqNo=50 L:13169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:10260 M:341 Repeated in SeqNo=51 L:13460 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:0 L:13483 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:0 L:13721 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:3420 M:341 Repeated in SeqNo=62 L:14607 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:2640 M:341 Repeated in SeqNo=75